

EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEE	DDD	TTT
EEE	DDD	TTT
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EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT

```

LL          IIIII
LL          IIIII
LL          II
LL          II
LL          II
LL          II
LL          II
LL          II
LL          II
LL          II
LL          I
LL          II
LL          II
LL          I
LLLLLLLLLL IIIII
LLLLLLLLLLL IIIII
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```

```
0001 0 %TITLE 'EDT$CHMUNDEL - undelete'
0002 0 MODULE EDT$CHMUNDEL (
0003 0 IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *****
0028 1
0029 1
0030 1
0031 1 **
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 This module performs the undeletion of text associated
0037 1 with the change mode commands UNDC, UNDW, and UNDL.
0038 1
0039 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0040 1
0041 1 AUTHOR: Bob Kushlis, CREATION DATE: Unknown
0042 1
0043 1 MODIFIED BY:
0044 1
0045 1 1-001 - Original. DJS 04-Feb-1981. This module was created by
0046 1 extracting the routine UNDELETE from the module CHANGE.BLI.
0047 1 1-002 - Regularize headers. JBS 04-Mar-1981
0048 1 1-003 - Replace call to edt$$tst eob. STS 22-Sep-1982
0049 1 1-004 - Don't turn an undelete of an empty line into a noop at EOB. JBS 01-Dec-1982
0050 1
0051 1
```


EDT\$CHMUNDEL
V04-000

EDT\$CHMUNDEL - undelete
Declarations

F 14
16-Sep-1984 00:13:54
14-Sep-1984 12:22:49

VAX-11 Bliss-32 V4.0-742
DISK\$VM\$MASTER:[EDT.SRC]CHMUNDEL.BLI;1 Page 2 (2)

```

53 0052 1 %SBTTL 'Declarations'
54 0053 1
55 0054 1 TABLE OF CONTENTS:
56 0055 1
57 0056 1
58 0057 1 REQUIRE 'EDT$SRC:TRAROUNAM';
59 0496 1
60 0497 1 FORWARD ROUTINE
61 0498 1 EDT$SUNDL;
62 0499 1
63 0500 1
64 0501 1 INCLUDE FILES:
65 0502 1
66 0503 1
67 0504 1 REQUIRE 'EDT$SRC:EDTREQ';
68 0639 1
69 0640 1
70 0641 1 MACROS:
71 0642 1
72 0643 1 NONE
73 0644 1
74 0645 1 EQUATED SYMBOLS:
75 0646 1
76 0647 1 NONE
77 0648 1
78 0649 1 OWN STORAGE:
79 0650 1
80 0651 1 NONE
81 0652 1
82 0653 1 EXTERNAL REFERENCES:
83 0654 1
84 0655 1 In the routine
```

! Insert the contents of an undelete buffer

EDT
V04

```

: 86 0656 1 %SBTTL 'EDT$$SUNDL - undelete'
: 87 0657 1
: 88 0658 1 GLOBAL ROUTINE EDT$$SUNDL (
: 89 0659 1     BUF,
: 90 0660 1     LEN
: 91 0661 1     ) =
: 92 0662 1
: 93 0663 1 ++
: 94 0664 1 FUNCTIONAL DESCRIPTION:
: 95 0665 1
: 96 0666 1     Insert the contents of an undelete buffer and move to whichever end.
: 97 0667 1
: 98 0668 1 FORMAL PARAMETERS:
: 99 0669 1
: 100 0670 1     BUF                the address of the undelete buffer.  Its first character is
: 101 0671 1                        the direction indicator.
: 102 0672 1
: 103 0673 1     LEN                the length of the buffer.
: 104 0674 1
: 105 0675 1 IMPLICIT INPUTS:
: 106 0676 1
: 107 0677 1     NONE
: 108 0678 1
: 109 0679 1 IMPLICIT OUTPUTS:
: 110 0680 1
: 111 0681 1     NONE
: 112 0682 1
: 113 0683 1 ROUTINE VALUE:
: 114 0684 1
: 115 0685 1     1 is returned if successful, 0 otherwise.
: 116 0686 1
: 117 0687 1 SIDE EFFECTS:
: 118 0688 1
: 119 0689 1     NONE
: 120 0690 1
: 121 0691 1 --
: 122 0692 1
: 123 0693 2 BEGIN
: 124 0694 2
: 125 0695 2 EXTERNAL ROUTINE
: 126 0696 2     EDT$$INS_CHS,
: 127 0697 2     EDT$$CS_LEFT;
: 128 0698 2
: 129 0699 2 EXTERNAL
: 130 0700 2     EDT$$A_WK_LN : REF LIN_BLOCK,
: 131 0701 2     EDT$$Z_EOB_LN;
: 132 0702 2
: 133 0703 2 LOCAL
: 134 0704 2     DIR,
: 135 0705 2     RLEN,
: 136 0706 2     BUF_POINT;
: 137 0707 2
: 138 0708 2     RLEN = .LEN;
: 139 0709 2 ++
: 140 0710 2 Check for special case of entering an unnecessary carriage return
: 141 0711 2 at the end of the buffer.
: 142 0712 2 --
```

```
143 0713 2
144 0714 2 IF ((.EDTSSA_WK_LN EQLA EDTSSZ_EOB_LN) AND !
145 0715 2 (.RLEN GTR T) AND !
146 0716 2 (CH$RCHAR (CH$PTR (.BUF, .RLEN)) EQL ASC_K_(R))
147 0717 2 THEN
148 0718 2 RLEN = .RLEN - 1;
149 0719 2
150 0720 2 BUF_POINT = CH$PTR (.BUF);
151 0721 2 +
152 0722 2 Get the direction indicator.
153 0723 2 -
154 0724 2 DIR = CH$RCHAR_A (BUF_POINT);
155 0725 2
156 0726 2 IF (EDTSSINS_CHS (.BUF_POINT, .RLEN) EQL 0) THEN RETURN (0);
157 0727 2
158 0728 2 +
159 0729 2 If the delete was a forward one, position to the beginning of the
160 0730 2 string we just inserted.
161 0731 2 -
162 0732 2
163 0733 2 IF (.DIR NEQ DIR_BACKWARD)
164 0734 2 THEN
165 0735 2
166 0736 2 DEC R1 FROM .RLEN - 1 TO 0 DO
167 0737 2 EDTSSCS_LEFT ();
168 0738 2
169 0739 2 RETURN (1);
170 0740 1 END;
```

! of routine EDT\$UNDEL

```
.TITLE EDT$CHMUNDEL EDT$CHMUNDEL - undelete
.IDENT \V04-000\
```

```
.EXTRN EDTSSINS_CHS, EDTSSCS_LEFT
.EXTRN EDTSSA_WK_LN, EDTSSZ_EOB_LN
```

```
.PSECT _EDT$CODE,NOWRT, SHR, PIC,2
```

```
000C 00000
52 08 AC D0 00002
50 00000000G 00 9E 00006
50 00000000G 00 D1 0000D
01 0E 12 00014
01 52 D1 00016
09 15 00019
0D 04 BC42 91 0001B
02 12 00020
50 04 52 D7 00022 1$:
53 80 9A 00028
00000000G 00 05 BB 0002B
02 FB 0002D
50 D5 00034
14 13 00036
53 D5 00038
0C 13 0003A
07 11 0003C
```

```
.ENTRY EDT$UNDEL, Save R2,R3 : 0658
MOVL LEN, RLEN : 0708
MOVAB EDTSSZ_EOB_LN, R0 : 0714
CML EDTSSA_WK_LN, R0
BNEQ 1$ :
CML RLEN, #1 : 0715
BLEQ 1$ :
CMPB @BUF[RLEN], #13 : 0716
BNEQ 1$ :
DECL RLEN : 0718
MOVL BUF, BUF_POINT : 0720
MOVZBL (BUF_POINT)+, DIR : 0724
PUSHR #*M<R0,R2> : 0726
CALLS #2, EDTSSINS_CHS
TSTL R0
BEQL 5$ :
TSTL DIR : 0733
BEQL 4$ :
BRB 3$ : 0736
```


EDT\$CHMUNDEL
V04-000

EDT\$CHMUNDEL - undelete
EDT\$\$UNDL - undelete

I 14
16-Sep-1984 00:13:54
14-Sep-1984 12:22:49

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]CHMUNDEL.BLI;1 Page 5 (3)

00000000G 00
F6
50

00	FB	0003E	2\$:	CALLS	#0, EDT\$\$CS_LEFT
52	F4	00045	3\$:	SOBGEQ	1, 2\$
01	D0	00048	4\$:	MOVL	#1, R0
	04	0004B		RET	
50	D4	0004C	5\$:	CLRL	R0
	04	0004E		RET	

: 0737
: 0739
: 0740
:

: Routine Size: 79 bytes, Routine Base: _EDT\$CODE + 0000

: 171
: 172
0741 1
0742 1 !<BLF/PAGE>

EDT
V04

EDT\$CHMUNDEL
V04-000

EDT\$CHMUNDEL - undelete
EDT\$\$UNDL - undelete

J 14
16-Sep-1984 00:13:54
14-Sep-1984 12:22:49

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]CHMUNDEL.BLI;1 (4)

Page 6

: 174 0743 1 END
: 175 0744 1
: 176 0745 0 ELUDOM

! of module EDT\$CHMUNDEL

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	79	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	10	2	40	00:00.2
_ \$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LISS:CHMUNDEL/OBJ=OBJ\$:CHMUNDEL MSRC\$:CHMUNDEL.BLI/UPDATE=(ENHS:CHMU
NDEL)

: Size: 79 code + 0 data bytes
: Run Time: 00:10.7
: Elapsed Time: 00:13.6
: Lines/CPU Min: 4181
: Lexemes/CPU-Min: 11478
: Memory Used: 70 pages
: Compilation Complete

0132 AH-BT13A-SE
VAX/VMS V4.0

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